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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/691,362
Filing Date	10/22/2003
First Named Inventor	Bjoern Magnussen
Group Art Unit	2834
Examiner Name	Unknown
Attorney Docket Number	ELLIP-002C

Total Number of Pages in This Submission

## ENCLOSURES (check all that apply)

- ☐ Fee Transmittal Form
- ☐ Fee Attached
- ☐ Amendment / Reply
- ☐ After Final
- ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
- ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Assignment Papers (for an Application)
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) \_\_\_\_\_

- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please identify below):

Form PTO-1449 (in duplicate); a copy of Acknowledgement Receipt for electronically filed IDS; and a return postcard.

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Lowell Anderson Stetina Brunda Garred & Brucker
Signature	<i>Lowell Anderson</i>
Date	3/23/04

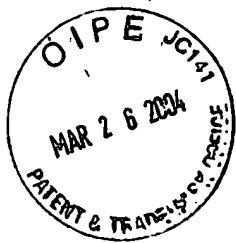
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Magnussen, <i>et al.</i>	)	Confirmation No.: 1419
		)	
Appl. No.:	10/691,362	)	Examiner: Unknown
		)	
Filed:	10/22/2003	)	Group Art Unit: 2834
		)	
For:	VIBRATORY MOTORS AND	)	
	METHODS OF MAKING AND	)	
	USING SAME	)	

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**INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 C.F.R. SECTION 1.97**

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Commissioner for Patents  
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Alexandria, VA 22313

Dear Sir/Madam:

Pursuant to 37 C.F.R. § 1.97, the following Information Disclosure Statement is submitted as listed on form PTO-1449 enclosed herewith in duplicate. Copies of all disclosure documents were previously provided by Applicant or were otherwise made of record during prosecution of the parent patent application Serial No. **09/801,194**, filed 03/08/2001.

The disclosure documents listed on the attached form PTO-1449 were printed in the English language and/or accompanied by and Abstract published in the English language. The relevance of any non-English language references is explained in the abstract, or in the accompanied PCT search reports, and/or by comments provided below:

DE 2530045 C2 describes a motor with a stator and a rotor where the stator has at least one piezoelectric resonator that has a friction contact to the rotor. The resonator has at least one piezoelectric that is attached to the parallel surfaces of the resonator. The piezoelectric element is connected to an AC-voltage source. The polarization of the piezoelectric element is perpendicular to the electrode surface. The dimension of the resonator is designed to have a longitudinal resonance that is close to the frequency of the AC voltage. The resonator is in

driving communication with the rotor, so that the contact to the rotor causes bending or transversal vibrations that together drive the rotor.

DE 3309239 C2 discloses a piezoelectric motor with two resonators each having a separate resonant frequency defined by the dimensions of the respective resonator. The frequencies are sufficiently close to produce a mechanical phase shift in the resonators so that no electric difference of the input signal is necessary.

DE 3833342 A1 describes a piezoelectric motor providing two selectable driving directions and a holding mode, comprising one driving element (2, 33, 133, 233) that generates mutually orthogonal motion components (L, T) with selectable mutual phases ( $0^\circ$ ,  $180^\circ$ ,  $190^\circ$ ).

DE 3920726 C2 describes an ultrasonic oscillator 1 with piezoelectric elements 2. A resonator 4 is connected to the piezoelectric elements 2. The resonator has one or several slanted surfaces 9 wherein at the front end of resonator 4 elliptic oscillations are generated. The ultrasonic oscillator 1 can be used as a driver of a motor 20 that has a rotor 22.

DE 19928780 discloses a piezoelectric actuator configuration.

EP 0231940 A2 shows a piezoelectric drive used as a motor (Fig. 1) or mist generator (Fig. 2), and uses two masses (2 & 3) connected by a tube shaped part 6 that encloses the piezoceramic body 4.

EP 0643427 B1 has claims written in English. Claim 1 refers to an electric motor with at least one pair of transducers (1, 1', 2', 101, 102) each comprising a vibrating element. These transducers are located collinearly in order to generate longitudinal vibrations in the direction of the axis of alignment, in permanent contact via one of their ends with a support structure (70, 15, 24, 38, 39, 46, 51, 60, 66, 104, 107) and via the other one of their ends with an elastic coupling means (3, 3', 103) to which the vibrations of the two transducers are applied. The transducers are excited so that their vibrating elements vibrate at one and the same frequency, depending on the alignment of the transducers, but with a phase shift of  $90^\circ$ , and at least one element (4, 10, 11, 25, 36, 37, 49, 50, 62, 63, 106) frictionally driven by the coupling means whose zone of contact with the driven element is given a circular or elliptical movement, motor wherein the coupling means is an elastic component in contact at two opposed points with the transducers, and exhibiting symmetry relative to a plane perpendicular to the line of action of the transducers and a section, along a plane containing this line of action, of at least approximately elliptical, particularly circular or semi-elliptical shapes.

SU 1278994 shows a mounting arrangement for vibratory motors.

An article by W. Krause and W. Schinkothe, titled "Lineardirektantriebe für die Feinwerktechnik [Direct-Drive Linear Motors in Precision Engineering]", which was published in *Feinwerktechnik & Messtechnik [Precision Engineering and Measurement Engineering]*, Issue 98, No. 7-8, Munich, 1990. It describes a piezoelectric linear motor.

Please note that this is filed concurrently with one or more additional Information Disclosure Statements which were filed electronically on the same date. Attached is an Acknowledgement Receipt: reference EFS ID **57663**.

No representation is made that the references disclosed herein legally constitute prior art, or that more relevant references are not available. The references listed herein, when taken alone or in combination, are not believed to disclose nor make obvious the invention as claimed in the subject application.

As this Information Disclosure Statement is being submitted before the stipulated three months from the filing date of the application and/or before the mailing of a first Office Action, it is believed that no fee is required. If any additional fee is required, please charge Account Number 19-4330.

Respectfully submitted,

Dated: \_\_\_\_\_

3/23/04

By: \_\_\_\_\_

Lowell Anderson

Lowell Anderson

Registration No. 30,990

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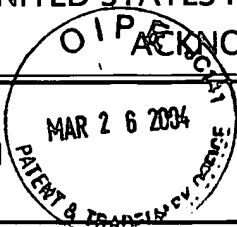
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## UNITED STATES PATENT AND TRADEMARK OFFICE

## ACKNOWLEDGEMENT RECEIPT

Electronic Version 1.1

Stylesheet Version v1.1.1

Title of  
Invention

VIBRATORY MOTORS AND METHODS OF MAKING AND USING SAME

Submission Type: Information Disclosure Statement

Application Number: 10/691362

\*10/691362\*

EFS ID: 57663

Server Response:

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ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application
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First Named Applicant: Bjoern Magnussen

Attorney Docket Number: ELLIP002C

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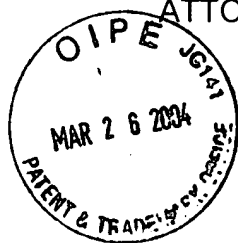
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package-data	us-package-data.xsl	19263
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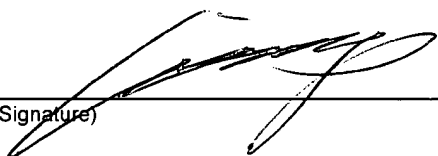


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10/891,382INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTAPPLICANTS  
Magnussen et al.FILING DATE  
10/22/2003GROUP  
2834

(37 CFR 1.98(b))

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
1	DE2530045 C2	07/04/1975	Deutschland				
2	DE3309239 C2	09/20/1984	Deutschland				
3	DE3833342 A1	09/30/1988	Deutschland				
4	DE3920726 C2	06/24/1989	Deutschland				
5	DE4127163 A1	02/18/1993	Deutschland				
6	DE19507996 A1	09/12/1996	Deutschland				
7	DE19538978 C1	11/21/1996	Deutschland				
8	DE19920436 A1	11/09/2000	Deutschland				
9	DE19928780	01/04/2001	Deutschland				
10	DE10010707 C2	01/10/2002	Deutschland				
11	EP0231940 A2	02/04/1987	Europe				
12	EP0313072 A1	04/26/1989	Europe				
13	EP0518262 A2	12/16/1992	Europe				
14	EP0313072 B1	05/05/1993	Europe				
15	EP0569673 A1	11/18/1993	Europe				
16	EP0712170 A1	05/15/1996	Europe				
17	EP0725450 A1	08/07/1996	Europe				
18	EP0643427 B1	11/19/1997	Europe				
19	EP0924778 A2	06/23/1999	Europe				
20	EP0924778 A3	01/17/2001	Europe				
21	EP0951078 A1	10/20/1999	Europe				
22	GB1510091	05/10/1978	Great Britain				
23	JP62-217880	09/25/1987	Japan				
24	JP2-260476	10/23/1990	Japan				
25	JP02260582	10/23/1990	Japan				
26	JP04351200	12/04/1992	Japan				
27	JP06286401	10/11/1994	Japan				
28	JP08019275	01/19/1996	Japan				
29	WO9750134	12/31/1997	PCT				
30	WO141228 A1	07/06/2001	PCT				
31	SU1278994 A1	07/05/1994	Former Soviet Union				

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

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